



FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

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## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

### PERMITTEE:

City of Bradenton, Department of Public Works

### PERMIT NUMBER:

FL0021369 (Major)

### PA FILE NUMBER:

FL0021369-007-DW1P/NR

### ISSUANCE DATE:

### EXPIRATION DATE:

### RESPONSIBLE AUTHORITY:

Mr. Claude Tankersley, P.E.  
Director  
1411 - 9th Street West  
Bradenton, FL 34205-7217  
claude.tankersley@cityofbradenton.com  
(941) 708-6300

### FACILITY:

City of Bradenton Wastewater Treatment Facility  
1810 First Street West  
Bradenton, FL 34208  
Manatee County  
WBID No. 1848A  
Latitude: 27° 28' 58" N Longitude: 82° 33' 49" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

### TREATMENT FACILITIES:

Operation of an existing 9.0 mgd annual average daily flow (AADF) daily flow Type I activated sludge advanced wastewater treatment facility consisting of: headworks with bar screens, grit removal system, biofilter odor control system, two Carrousel-type aeration basins of 2.26 mg each for a total of 4.52 million gallons, three clarifiers of 705,000 gallons each, for a total of 2.115 MG, two below-grade filter lift stations, six single media gravity de-nitrification filters with air scour and water backwash providing a total of 3,000 square foot filtration surface area, one split compartment chlorine contact chamber of 500,000 gallons, one reclaimed storage basin of 280,000 gallons, and a de-chlorination chamber and post-aeration basin of 200,000 gallons. The plant capacity is limited to 7.5 MGD based on the disposal capacity of D-001 and R-001 as described below.

The solids handling stream consists of one Dissolved Air Flotation residuals thickening unit of 400 square foot surface area, three aerobic digesters, two with capacities of 570,000 gallons each, and one of 1,260,000 gallons providing a total digestion volume of 2,400,000 gallons, and two mechanical belt filter presses.

The plant is a dual train facility with the exception of the headworks. Polymer coagulant feed is available on a standby status for solids control and methanol is directed to the de-nitrification filters for nitrate/nitrite control. Iron salts are added to the headworks for phosphorus control. The effluent and reclaimed water systems on-site and off

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are controlled, sequenced and operated according to procedures set forth in the plant Operating Protocol in order to assure maximum reliability and safeguards on the quality of the reclaimed water. Plant alarm systems are annunciated throughout the plant site and also are remoted to the plant.

**DISPOSAL:**

**Surface Water Discharge:** An existing 6.0 MGD annual average daily flow (AADF) permitted discharge to the Manatee River (Class III, marine waters, WBID No. 1848A) at Discharge Location (D-001) which is approximately 20 feet in length and discharges at a depth of approximately 0 feet. The point of discharge is located approximately at latitude 27° 29' 52" N, longitude 82° 33' 40" W. .

**REUSE:**

**Land Application:** An existing 1.5 MGD annual average daily flow (AADF) permitted capacity slow-rate public access reuse system (R-001) consisting of an area that generally lies within the City of Bradenton limits east of Business 41 and US 301, north of 26th Avenue, extending into Manatee County to the Manatee River on the north, east of the Braden River, and south to the vicinity of Evers Reservoir. Included in this system is up to 0.75 mgd AADF to Tropicana Product's 2.0 mg above-ground storage tank (latitude 27° 29' 15" longitude 82° 33' 06")

**IN ACCORDANCE WITH:** The limitations, monitoring requirements and other conditions set forth in Pages 1 through 33 of this permit.

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharges**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D-001. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.C.8:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, To D-001	MGD	Maximum	6.0	Report	-	-	Continuous	Recording flow meters and totalizers	FLW-04	See Cond.I.A.4
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	5.0	6.25	7.5	10.0	5 Days/Week	24-hour FPC	EFD-01	
Solids, Total Suspended	MG/L	Maximum	5.0	6.25	7.5	10.0	5 Days/Week	24-hour FPC	EFD-01	
Solids, Total Suspended	MG/L	Maximum	-	-	-	5.0	4 Days/Week	Grab	EFD-01	
Nitrogen, Total (as N)	MG/L	Maximum	3.0	3.75	4.5	6.0	5 Days/Week	24-hour FPC	EFD-01	
Phosphorus, Total (as P)	MG/L	Maximum	1.0	1.25	1.5	2.0	5 Days/Week	24-hour FPC	EFD-01	
pH	SU	Range	-	-	-	6.5 to 8.5	Continuous	Meter	EFD-01	See Cond.I.A.3
Coliform, Fecal, % less than detection	PERCENT	Minimum	75				Monthly	Calculation	EFA-01	See Cond.I.A.5
Coliform, Fecal	#/100ML	Maximum				25	4 Days/Week	Grab	EFA-01	See Cond.I.A.5
Total Residual Chlorine (For Disinfection)	MG/L	Minimum	-	-	-	1.0	Continuous	Meter	EFA-01	See Cond.I.A.3, 6
Total Residual Chlorine (For Dechlorination)	MG/L	Maximum	-	-	-	0.01	7 Days/Week	Grab	EFD-01	
Oxygen, Dissolved (DO)	MG/L	Minimum	-	-	-	5.0	7 Days/Week	Grab	EFD-01	
Enterococci	#/100ML	Maximum	-	35	-	276	5 Days/Month	Grab	EFA-01	See Cond.I.A.7
Nickel, Total Recoverable	UG/L	Maximum	-	-	-	8.3	Monthly	Grab	EFD-01	
Lead, Total Recoverable	UG/L	Maximum	-	-	-	8.5	Monthly	Grab	EFD-01	
Cyanide, Total (as CN)	UG/L	Maximum	-	-	-	1.0	Monthly	Grab	EFD-01	
Copper, Total Recoverable	UG/L	Maximum	-	-	-	Report	Semiannually	Grab	EFD-01	



FACILITY: City of Bradenton Wastewater Treatment Facility  
 PERMITTEE: City of Bradenton, Department of Public Works  
 PERMIT NUMBER: FL0021369

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Nitrogen, Total (as N)	Tons/Year	Maximum	23.1 (Ann. Total)	Report (Mo Total)	-	-	Monthly	Calculation	EFD-01	See Cond.I.A.8
Nitrogen, Total (as N)	Tons/Year	Maximum	18.9 (5Yr Avg.)	Report (Avg.)	-	-	Monthly	Calculation	EFD-01	See Cond.I.A.8
Whole Effluent Toxicity (Chronic)	Percent	Minimum	-	-	-	100	Every Three Months	24-hour FPC	EFD-01	See Cond.I.A.10



2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-01	Inlet from Reuse Pumping Basin, prior to de-chlorination and prior to discharge to R-001.
EFB-01	Filter clearwell discharge and prior to disinfection.
EFD-01	At outlet from dechlorination basin, prior outfall D-001.
FLW-04	Flow to D-001 (ultrasonic meter).

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2]*
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6)]*
5. Over a 30-day period, at least 75 percent of the fecal coliform values shall be below the detection limits. No sample shall exceed 25 fecal coliforms per 100 mL. No sample shall exceed 5.0 mg/L of total suspended solids (TSS) at a point before the application of the disinfectant. Note: To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). *[62-600.440(5)(f)]*
6. A minimum of 1.0 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. *[62-600.440(5)(b) and (6)(b)]*
7. Enterococci, a maximum monthly geometric mean of 35/100mL based on at least 5 samples taken on nonconsecutive days over a 30-day period.
8. In accordance with the load allocations for the Tampa Bay Reasonable Assurance, the Total Maximum Daily Load for Total Nitrogen shall be calculated from the monthly average Total Nitrogen concentration. The Total Nitrogen loading shall be calculated as a twelve-month rolling total and shall not exceed 23.1 tons/year and the five year average of the yearly totals shall not exceed 18.9 tons/year. Pursuant to Rule 62-620.325, F.A.C., the Department may revise this permit to incorporate the final findings.

The Annual Total value is the sum of the monthly totals January through December of each year during the permit cycle, beginning in January after permit issuance. The Annual Total value is not a rolling annual total. The Rolling Average value is the sum of the monthly totals divided by the number of months. The 5-Year Average value is the Rolling Average Value calculated in the 60<sup>th</sup> month after permit issuance. Prior to the 60<sup>th</sup> month, the 5-Year Average should be reported as NODI=9.

9. To support permit renewal, effluent testing information must be collected with a minimum of three samples taken within four and one half years prior to the expiration date of this permit. Values must be representative of the seasonal variation in the discharge from each outfall or represent best engineering estimates for new treatment and disposal systems in accordance with the instructions provided with DEP Form 62-620.910(2). The results must be included in DEP Form 62-620.910(2) (Form 2A application) section 3.A.12, 13, and 14, as appropriate. *[62-620.910(2)]*
10. Chronic Whole Effluent Toxicity Testing

The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.

a. Effluent Limitation

- (1) Whole effluent chronic toxicity shall not exceed a 25 percent inhibition concentration (IC25) of less than 100% effluent in any test and Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.
- (2) In the chronic toxicity test, the effluent cannot be acutely toxic, in accordance with Rules 62-4.241(1)(a), 62-302.200(1) and 62-302.500(1)(a)(4) F.A.C.



- b. Monitoring Frequency
  - (1) The "routine" toxicity tests specified shall be conducted *once every three months*.
- c. Sampling Requirements
  - (1) For each routine test or additional follow-up test conducted, a total of three *flow proportional 24-hour composite* samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8, or the most current edition.
  - (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
  - (3) Samples for routine and additional follow-up tests shall not be collected on the same day.
  - (4) If the duration of the discharge is less than 24-hours, the duration of discharge shall be documented on the chain of custody. Each sample shall be analyzed for total residual chlorine and pH at the time of sample collection. Should the discharge last less than 24 hours, the bioassay shall be run on the volume collected, however, three samples must be collected.
- d. Test Requirements
  - (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%, 50%, 25%, 12.5%, and 6.25%** final effluent.
  - (2) The permittee shall conduct a daphnid, ***Ceriodaphnia dubia***, Survival and Reproduction Test and a fathead minnow, ***Pimephales promelas***, Larval Survival and Growth Test, concurrently.
  - (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th ed., EPA-821-R-02-013 or the most current edition. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.
  - (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7 or the most current edition.
- e. Quality Assurance Requirements
  - (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
  - (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (***Ceriodaphnia dubia***) and Section 11.11 (***Pimephales promelas***) or the most current edition. The repeat test shall begin within 21 days after the last day of the invalid test.
  - (3) If 100% mortality occurs in all effluent concentrations prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.
  - (4) Additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6. or the most current edition, and the evaluation shall be included with the bioassay laboratory reports.
- f. Reporting Requirements
  - (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
    - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
  - (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review or the most current edition, and mailed to the Department at the address below within 30 days after the last day of the test.
  - (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10 or the most current edition, and mailed within 30 days after the last day of the second valid additional follow-up test.
  - (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
  - (5) The same bioassay data shall not be reported as the results of more than one test.

- (6) All bioassay laboratory reports shall be sent to:  
Department of Environmental Protection  
Southwest District Office  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926  
Telephone No.: (813) 632-7600

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 10.a.(1) & (2).  
(2) Additional Follow-up Tests:  
(a) If a routine test does not meet the chronic toxicity limitation in 10.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 10.d.  
(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.  
(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the Appendices in EPA-821-R-02-013 or the most current edition.  
(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.  
(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.  
(b) The Department shall review and approve the plan before initiation.  
(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.  
(d) Progress reports shall be submitted quarterly to the Department at the address above.  
(e) During the period of time that the approved plan is ongoing, the permittee shall conduct routine whole effluent toxicity testing at the frequency of once every three months, but shall not be required to perform additional follow-up tests. If a routine test is invalid as established in EPA Methods, EPA-821-R-02-012, EPA-821-R-02-013, or EPA-821-R-02-014, a retest must be started within 21 days for a chronic test or 14 days for an acute test after the last day of the invalid test.  
(f) Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up whole effluent toxicity tests shall return to the schedule established in the facility wastewater permit. The permittee may terminate the plan at any time upon written verification by the Department that the facility has passed at least four consecutive valid routine whole effluent toxicity tests.

[62-4.241, 62-620.620(3)]

8. Ambient Monitoring

The permittee shall conduct an ambient Surface Water monitoring program to evaluate the impacts of the discharge on the water quality of the receiving body of water. The following locations shall be sampled on a quarterly basis during the first and fifth year of the permit and on a semi-annual basis (wet and dry season) during the second, third and fourth years of the permit.

a. Sampling Locations:

1. 1000 feet upstream of the outfall
2. 1000 feet downstream of the outfall
3. At the outfall (EFD-01).

b. Sampling Depths:



Surface, mid-depth and bottom depth samples shall be collected at all ambient monitoring sites.

c. Sampling Parameters:

1. Surface (locations 2 and 3): pH, dissolved oxygen, temperature and salinity shall be measured at 0.1 meters below the surface of the water.
2. Mid-depth (locations 2 and 3): pH, dissolved oxygen, temperature, salinity, chlorophyll-a, turbidity, CBOD5, total suspended solids, total Kjeldahl nitrogen, nitrite-nitrate nitrogen, total ammonia nitrogen, total phosphorus, ortho-phosphorus and fecal coliform bacteria.
3. Outfall (location 1; effluent): pH, dissolved oxygen, temperature, salinity, total suspended solids, CBOD5, total Kjeldahl nitrogen, nitrite-nitrate nitrogen, total ammonia nitrogen, total phosphorus, ortho-phosphorus and fecal coliform bacteria.
4. Bottom (locations 2 and 3): pH, dissolved oxygen, temperature and salinity shall be measured at 0.1 meters above the bottom.

d. Secchi Depth: Shall be measured at the two (2) ambient sites.

e. Ambient Conditions: Air temperature, rainfall, cloud cover and direction of receiving waterbody flow (incoming or outgoing tides) shall be noted at each sampling location.

f. Chain of Custody: Time and date of sampling and the names of persons who obtained the sample shall be noted at each sampling location on the Chain of Custody (COC).

g. Reports: A report containing the sampled data shall be submitted to the FDEP's Southwest District (in both printed and electronic formats) on a biannual basis presenting the results and interpretations of the ambient monitoring program sampling events. The report shall also include all chain of custody forms, laboratory results as reported by the laboratory and the physiochemical raw data sheets.

**B. Reuse and Land Application Systems**

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.C.8:

Monitoring Requirements										
Reclaimed Water Limitations										
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, To R-001	MGD	Maximum	1.5	Report	-	-	Continuous	Calculation	FLW-05	See Cond.I.B.4
BOD, Carbonaceous 5 day, 20C <sup>1</sup>	MG/L	Maximum	20.0	30.0	45.0	60.0	5 Days/Week	24-hour FPC	EFD-01	
Solids, Total Suspended	MG/L	Maximum	-	-	-	5.0	4 Days/Week	Grab	EFB-01	
pH	SU	Range	-	-	-	6.0 to 8.5	Continuous	Meter	EFD-01	See Cond.I.B.3
Coliform, Fecal, % less than detection	PERCENT	Minimum		75			Monthly	Calculation	EFA-01	See Cond.I.A.5
Coliform, Fecal	#/100ML	Maximum				25	4 Days/Week	Grab	EFA-01	See Cond.I.A.5
Total Residual Chlorine (For Disinfection)	MG/L	Minimum	-	-	-	1.0	Continuous	Meter	EFA-01	See Cond.I.B.6
Turbidity	NTU	Maximum	See Permit Condition I.B.7.				Continuous	Meter	EFB-01	
Giardia	CYSTS/100 L	Maximum	-	-	-	Report	two years	Filtered	EFA-01	
Cryptosporidium	OOCYST S/100 L	Maximum	-	-	-	Report	two years	Filtered	EFA-01	

2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I. B. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-01	Inlet from Reuse Pumping Basin, prior to de-chlorination and prior to discharge to R-001.
EFB-01	Filter clearwell discharge and prior to disinfection.
EFD-01	At outlet from dechlorination basin, prior outfall D-001.
FLW-02	Flow to R-001 Master Urban Reuse (Transit-time Flowmeter) at the discharge side of the reuse pumps at the reuse pumping basin.
FLW-03	Flow to on-site reuse (Transit-time Flowmeter).
FLW-05	FLW-02 + FLW-03

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2]*
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6)]*
5. Over a 30-day period, at least 75 percent of the fecal coliform values shall be below the detection limits. No sample shall exceed 25 fecal coliforms per 100 mL. No sample shall exceed 5.0 mg/L of total suspended solids (TSS) at a point before the application of the disinfectant. Note: To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). *[62-600.440(5)(f)]*
6. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L. *[62-600.440(5)(b); 62-610.460(2); and 62-610.463(2)]*
7. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. *[62-610.463(2)]*
8. The treatment facilities shall be operated in accordance with all approved operating protocols. Only reclaimed water that meets the criteria established in the approved operating protocol(s) may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol(s) shall be directed to the following permitted alternate discharge system: D-001. The operating protocol(s) shall be reviewed and updated periodically to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department for review and approval upon revision of the operating protocol(s) and with each permit application. *[62-610.320(6) and 62-610.463(2)]*
9. Instruments for continuous on-line monitoring of total residual chlorine and turbidity shall be equipped with an automated data logging or recording device. *[62-610.463(2) & .865(8)(d)]*
10. Intervals between sampling for Giardia and Cryptosporidium shall not exceed two years. Sampling results shall be reported on DEP Form 62-610.300(4)(a)4 which is attached to this permit (If additional sampling is required in accordance with the attached form, only one additional sampling event will be required within the two year monitoring frequency) . This form shall be submitted to the Department and to DEP's Reuse Coordinator in Tallahassee. *[62-610.463(4)]*



### C. Other Limitations and Monitoring and Reporting Requirements

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.C.8:

Monitoring Requirements										
			Limitations							
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Total Plant	MGD	Maximum	7.5	Report	-	-	Continuous	Recording flow meters and totalizers	FLW-01	See Cond.I.C.4
Percent Capacity, (3MRADF/Permitted Capacity) x 100	PERCE NT	Maximum	-	Report	-	-	Monthly	Calculation	FLW-01	
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	-	Report	-	-	Weekly	24-hour FPC	INF-01	See Cond.I.C.3
Solids, Total Suspended	MG/L	Maximum	-	Report	-	-	Weekly	24-hour FPC	INF-01	See Cond.I.C.3

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. C. 1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
FLW-01	Filtered effluent prior to disinfection (30" MagMeter).
INF-01	At headworks prior to treatment and ahead of return activated sludge line.

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4)]
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6)]
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method to assure compliance with applicable water quality standards and effluent limitations in accordance with 40 CFR (Code of Federal Regulations) Part 136. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. All monitoring shall be representative of the monitored activity. [62-620.320(6)]
6. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitative limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" and is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide a MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection limit, the permittee shall report the actual laboratory MDL or the permit limit, whichever is less, on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is in accordance with 40 CFR 136. [62-4.246, 62-160]

7. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5)]
8. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to



the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below, unless specified elsewhere in the permit.

REPORT Type	Monitoring Period	Due Date
Monthly or Toxicity	first day of month – last day of month	28 <sup>th</sup> day of following month
Quarterly	January 1 - March 31	April 28
	April 1 – June 30	July 28
	July 1 – September 30	October 28
	October 1 – December 31	January 28
Semiannual	January 1 – June 30	July 28
	July 1 – December 31	January 28
Annual	January 1 – December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Originals to:

Florida Department of Environmental Protection  
Wastewater Compliance Evaluation Section, Mail Station 3551  
Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Copies to:

Florida Department of Environmental Protection  
Domestic Wastewater Program  
Southwest District Office  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926

[62-620.610(18)][62-601.300(1),(2), and (3)]

9. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, and corrosivity). Twenty-four hour composite samples and grab samples where appropriate shall be used to analyze reclaimed water or effluent for the primary and secondary drinking water standards. These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department by June 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-601.300(4)][62-601.500(3)][62-610.300(4)]
10. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]
11. The permittee shall maintain an inventory of storage systems. The inventory shall be submitted to the Department at least 30 days before reclaimed water will be introduced into any new storage system. The inventory of storage systems shall be attached to the annual submittal of the Annual Reuse Report. [62-610.464(5)]



12. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Southwest District Office at the address specified below:

Southwest District Office  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926

Phone Number - 813-632-7600  
FAX Number - 813-632-7662

All FAX copies shall be followed by original copies. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

## II. RESIDUALS MANAGEMENT REQUIREMENTS

1. The method of residuals use or disposal by this facility is land application, distribution and marketing, transport to RMF or disposal in a Class I or II solid waste landfill. Transportation of the residuals to an alternative RMF does not require a permit modification, however, use of an alternative RMF requires a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the residuals.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. [62-640.300(5)]
3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit. [62-640.300(5)]
4. The permittee shall not be held responsible for treatment, management, use, or land application violations that occur after its residuals have been accepted by a permitted residuals management facility with which the source facility has an agreement in accordance with Rule 62-640.880(1)(c), F.A.C., for further treatment, management, use or land application. [62-640.300(5)]
5. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(k)3 & 4]
6. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. [62-640]
7. The domestic wastewater residuals for this facility are classified as Class AA, A or B.
8. The permittee shall achieve Class A pathogen reduction by meeting the pathogen reduction requirements in section 503.32(a)(5) (For Biosolids Treated in Other Processes) of Title 40 CFR Part 503, revised as of October 25, 1995. [62-640.600(1)(a)]

9. During the period beginning on the issuance date and lasting through the expiration date of this permit, Class A and AA residuals shall be limited and monitored by the permittee as specified below.

Monitoring Requirements								
Parameter	Units	Max/ Min	Monthly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Fecal Coliform <i>or</i>	MPN	Maximum	-	<1000 per gram of dried solids	Monthly	Grab	RMP-AA	See Cond. 11
Salmonella, sp. bacteria	MPN	Maximum	-	<3 per 4 grams of dried solids	Monthly	Grab	RMP-AA	See Cond. 11
Density of enteric viruses	PFU	Maximum		< 1 PFU/4grams total solids	Monthly	Grab	RMP-01/RMP-AA	See Cond. 12
Density of viable helminth		Maximum		< 1/4grams total solids	Monthly	Grab	RMP-01/RMP-AA	See Cond. 12
Total Nitrogen	% dry weight	Maximum	Report	Report	Monthly	Composite	RMP-AA	
Total Phosphorus	% dry weight	Maximum	Report	Report	Monthly	Composite	RMP-AA	
Total Potassium	% dry weight	Maximum	Report	Report	Monthly	Composite	RMP-AA	
pH	standard units	Minimum	Report	Report	Monthly	Grab	RMP-AA	
Arsenic	mg/kg	Maximum	41	75	Monthly	Composite	RMP-AA	
Cadmium	mg/kg	Maximum	39	85	Monthly	Composite	RMP-AA	
Copper	mg/kg	Maximum	1500	4300	Monthly	Composite	RMP-AA	
Lead	mg/kg	Maximum	300	840	Monthly	Composite	RMP-AA	
Mercury	mg/kg	Maximum	17	57	Monthly	Composite	RMP-AA	
Molybdenum	mg/kg	Maximum	Report	75	Monthly	Composite	RMP-AA	
Nickel	mg/kg	Maximum	420	420	Monthly	Composite	RMP-AA	
Selenium	mg/kg	Maximum	100	100	Monthly	Composite	RMP-AA	
Zinc	mg/kg	Maximum	2800	7500	Monthly	Composite	RMP-AA	



10. Samples shall be taken at the monitoring site locations listed in Permit Condition II.9 & 14 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
RMP-01	Sewage feed sludge prior to treatment.
RMP-AA	Class A & AA final product, after the aerobic digestion and prior to distribution.
RMP-B	Class B final product after treatment and prior to land application.

11. As required by 503.32(a)(5) Class A - Either the density of fecal coliform in the sewage sludge shall be less than 1000 Most Probable Number per gram of total solids (dry weight basis), or the density of Salmonella, sp. bacteria in the sewage sludge shall be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land; or at the time the sewage sludge or material derived from sewage sludge is prepared to meet the requirements in Sec. 503.10(b), (c), (e), or (f).
12. Enteric viruses and viable helminth ova shall be analyzed in the feed sewage sludge. If these organisms are not detected in the feed sewage sludge, the sewage sludge is presumed to be acceptable as a Class A material until the next monitoring episode. Monitoring is continued until enteric viruses and/or viable helminth ova are detected in the feed sewage sludge (i.e., the density of enteric viruses is greater than or equal to 1 PFU per 4 grams total solids (dry weight basis) and/or the density of viable helminth ova is greater than or equal to 1 per 4 grams total solids (dry weight basis). At this point, the treated sewage sludge is analyzed to see if these organisms survived treatment. If enteric viruses densities are below detection limits, the sewage sludge meets Class A requirements for enteric viruses, and will continue to do so as long as the treatment process is operated under the same conditions that successfully reduced the enteric virus densities. If the viable helminth ova densities are below detection limits, the process meets the Class A requirements for enteric viruses and will continue to do so as long as the treatment process is operated under the same conditions that successfully reduced the viable helminth ova densities. Monitoring and documentation of the operating conditions shall be conducted to confirm adequate enteric virus and helminth ova reduction has been successfully demonstrated. Samples of untreated and treated sewage sludge must correspond in accordance with Section 7.4 of EPA document *Control of Pathogens and Vector Attraction in Sewage Sludge*.
13. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) of Title 40 CFR Part 503, revised as of October 25, 1995. [62-640.600(1)(b)]



14. During the period beginning on the issuance date and lasting through the expiration date of this permit, Class B residuals shall be limited and monitored by the permittee as specified below.

Monitoring Requirements								
Parameter	Units	Max/ Min	Monthly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Fecal Coliform	CFU or MPN	Maximum	-	<2 million/gram	Quarterly	Grab	RMP-B	See Cond. 15
Total Nitrogen	% dry weight	Maximum	N/A	Report	Quarterly	Composite	RMP-B	
Total Phosphorus	% dry weight	Maximum	N/A	Report	Quarterly	Composite	RMP-B	
Total Potassium	% dry weight	Maximum	N/A	Report	Quarterly	Composite	RMP-B	
pH	standard units	Minimum	N/A	Report	Quarterly	Grab	RMP-B	
Total Solids	Percent	Minimum	N/A	Report	Quarterly	Grab	RMP-B	
Arsenic	mg/kg	Maximum	41	75	Quarterly	Composite	RMP-B	
Cadmium	mg/kg	Maximum	39	85	Quarterly	Composite	RMP-B	
Copper	mg/kg	Maximum	1500	4300	Quarterly	Composite	RMP-B	
Lead	mg/kg	Maximum	300	840	Quarterly	Composite	RMP-B	
Mercury	mg/kg	Maximum	17	57	Quarterly	Composite	RMP-B	
Molybdenum	mg/kg	Maximum	Report	75	Quarterly	Composite	RMP-B	
Nickel	mg/kg	Maximum	420	420	Quarterly	Composite	RMP-B	
Selenium	mg/kg	Maximum	100	100	Quarterly	Composite	RMP-B	
Zinc	mg/kg	Maximum	2800	7500	Quarterly	Composite	RMP-B	

15. Alternative 1 requires that seven samples of treated sewage sludge (biosolids) be collected over a 2-week period and that the geometric mean fecal coliform density of these samples be less than 2 million CFU or MPN per gram of biosolids (dry weight basis). This approach uses fecal coliform density as an indicator of the average density of bacterial and viral pathogens. Over the long term, fecal coliform density is expected to correlate with bacterial and viral pathogen density in biosolids treated by biological treatment processes.
16. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(3) (<15% VS reduction) or 503.33(b)(4) (Meet a specific oxygen uptake rate for aerobically treated biosolids) and 503.33(b)(10) (Incorporation of sewage sludge into the soil) of Title 40 CFR Part 503, revised as of October 25, 1995. [62-640.600(2)(a)]
17. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. [62-640.400(8)]
18. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. [62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3)]
19. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. [62-640.650(1)(e)]
20. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. [62-640.650(1)(f)]
21. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. [62-640.650(3)(a)&(e)]
22. Only domestic wastewater residuals that meet Class AA standards may be sold or given away in a distribution and marketing program. The distribution and marketing of residuals shall be conducted in accordance with Chapter 62-640, F.A.C. [62-640.850]
23. The permittee shall submit a Monthly Residuals Distribution and Marketing Report to the Domestic Wastewater Section of the Department on Form 62-640.210(2)(c) by the 28th day of the month following the reporting month. The report shall be submitted to the following address:

Florida Department of Environmental Protection  
Domestic Wastewater Section, Mail Station 3540  
Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

[62-640.850(4)]

24. The permittee shall make the following information available to users by product labels or other means:
  - a. The name and address of the facility or person that produced the Class AA residuals;
  - b. A statement that the residuals or residuals product meets the criteria of Rule 62-640.850(3), F.A.C.;
  - c. A recommendation that residuals be applied at a rate that does not exceed the agronomic rate; and
  - d. The following residuals analysis information (dry weight basis):
    - Total Nitrogen (%)
    - Total Phosphorus (%)



Total Potassium (%)

[62-640.850(5)]

25. Class AA residuals shall not be distributed or marketed in the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds unless they are distributed and marketed as a fertilizer. The Class AA residuals produced by this facility can be distributed and marketed in these watersheds if the residuals are distributed and marketed as a fertilizer under Chapter 576 F.S., and Chapter 5E-1, F.A.C., or distributed and marketed to a person who will sell or give away the residuals as a fertilizer or as a component in a fertilizer product under Chapter 576 F.S., and Chapter 5E-1, F.A.C. [373.4595, F.S.]
26. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. [62-640.600(3)(b)]
27. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. [62-640.600(3)(b)1.]
28. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. [62-640.600(3)(b)2.]
29. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. [62-640.600(3)(b)6.]
30. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. [62-640.600(3)(b)3.]
31. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. [62-640.600(3)(b)4.]
32. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. [62-640.600(3)(b)5.]
33. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. [62-640.600(3)(b)7.]
34. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. [62-640.600(3)(b)8.]
35. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. [62-640.600(3)(b)]
36. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. [62-640.400(7)]
37. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Application Site Number	Site Name	Application Area (acres)	County
FLA290386	JMC Ranch	510	Polk
FLA289647	MJ Ranch	1773	Manatee
FLA288233	Hart-Albritton	1703	Highlands
FLA290521	Stokes Ranch	1067	Polk
FLA289914	5R	1518	Polk
FLA311898	Circle Cross	693	Polk
FLA290343	Fox Branch	2033	Polk

Application Site Number	Site Name	Application Area (acres)	County
FLA430412	Southerland	1161	Polk
FLA690392	Chris Walker Ranch	146	Polk
FLA690163	B-Bar-J Ranch	506	Polk

The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites, unless, under unusual circumstances, all of the following conditions are met:

- a) The permittee notifies the Department within 24 hours that the site is being used;
- b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C., and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
- c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
- d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
- e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3)]

38. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. [62-640.750(2)]
39. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. [62-640.700(2)(c)]
40. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. [62-640.700(2)(d)]
41. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. [62-640.700(2)(e)]
42. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. [62-640.700(2)(f)]
43. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. [62-640.700(5)(d)]
44. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:
  - a. Date of application of the residuals;
  - b. Location of the residuals application site as specified in the Agricultural Use Plan;



FACILITY: City of Bradenton Wastewater Treatment Facility  
PERMITTEE: City of Bradenton, Department of Public Works

PERMIT NUMBER: FL0021369

- c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
- d. Amount of residuals applied or delivered to each application zone;
- e. Cumulative loading of each application zone;
- f. The names of all other wastewater facilities using each of the application zones identified in item c.;
- g. Method of incorporation (if any);
- h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
- i. Unsaturated depth of soil above the water table level at the time of application;
- j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
- k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

[62-640.650(2)]

- 45. The permittee shall submit an annual summary of residuals application activity to the Southwest District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. [62-640.650(3)(b)]
- 46. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. [62-640.700(3)(f)]
- 47. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. [62-640.700(6)(a)]
- 48. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. [62-640.700(7)(a)]
- 49. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. [62-640.860]
- 50. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]
- 51. The permittee shall keep hauling records to track the transport of residuals between facilities. The hauling records shall contain the following information:

Source Facility	Residuals Management Facility or Treatment Facility
1. Date and Time Shipped	1. Date and Time Received
2. Amount of Residuals Shipped	2. Amount of Residuals Received
3. Degree of Treatment (if applicable)	3. Name and ID Number of Source Facility
4. Name and ID Number of Residuals Management Facility or Treatment Facility	4. Signature of Hauler
5. Signature of Responsible Party at Source Facility	5. Signature of Responsible Party at Residuals Management Facility or Treatment Facility
6. Signature of Hauler and Name of Hauling Firm	

These records shall be kept for five years and shall be made available for inspection upon request by the Department. A copy of the hauling records information maintained by the source facility shall be provided upon delivery of the residuals to the residuals management facility or treatment facility. The permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of residuals leaving the source facility and arriving at the residuals management facility or treatment facility. [62-640.880(4)]

- 52. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. [62-640.300(4)]

### III. GROUND WATER REQUIREMENTS

#### Construction Requirements

1. The permittee shall give at least 72-hours notice to the Department's Southwest District Office, prior to the installation of any monitoring wells detailed in this permit. [62-4.070]
2. The QUARTERLY sampling and analysis of all new ground water monitoring wells shall begin upon proper completion of the GWMP well system. The wells shall be sampled for the parameters identified in Permit Condition III.13 and in accordance to the Department's "Standard Operating Procedures For Laboratory Operations and Sample Collection Activities," DEP-SOP-001/01, FS 2200 Ground water Sampling, December 3, 2008. [62-522.600(1), (11)(a), and (b)]
3. Prior to construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location in order to establish the well depth and screen interval. [62-522.900(3)]
4. Within 30 days after completion of construction of the ground water monitoring wells, a properly scaled figure depicting monitor well locations (active and abandoned) with identification numbers shall be submitted. The figure shall also include (or attached) the monitoring well, top of casing and ground surface elevations referenced to National Geodetic Vertical Datum (NGVD) to the nearest 0.1 foot, along with monitor well location latitude and longitude to the nearest 0.1 second. 62-610.412 (c)
5. Within 30 days after completion of construction of the ground water monitoring wells, well completion reports shall be sent to the Domestic Wastewater Section, FDEP Southwest District Office. The information is to be submitted on the attached form for each well, DEP Form 62-522.900(3), Monitor Well Completion Report. [62-522.900(3)]
6. Within 30 days of completion of construction of new ground water monitor wells, the permittee shall submit the following information for each monitor well :
  - a. A copy of the Florida Water Management District (WMD) , State of Florida Permit Application to Construct, Repair, Modify or Abandon a Well, Form 41.10-410(1), and
  - b. A copy of the WMD Well Completion Report, Form 41.10-410(2), 62-610.412(2)(b)
7. After completion of construction of the new wells the permittee shall sample all new ground water monitoring wells for the Primary and Secondary Drinking Water parameters included in Rule 62-550, Florida Administrative Code, Public Drinking Water Systems (excluding asbestos, acrylamide dioxin, butachlor and epichlorohydrin), and EPA Methods 601 and 602. [62-520.400 and 62-520.420] [62-522.300(1), and 62-522.600(3)(A)]
8. The permittee shall coordinate any expansion of the Part III reclaimed water reuse system with the Southwest District Domestic Waste Permitting Section and shall propose additional ground water monitoring that may be required due to such expansion. [62-522.600(11)(C) and 62-610.320(3)]

#### Operational Requirements

9. For the Part III Public Access system, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge shall extend horizontally 100 feet from the application site or to user's site property line, whichever is less, and vertically to the base of the surficial aquifer. [62-520.200(23)] [62-522.400 and 62-522.410]
10. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
11. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600, F.A.C. [62-522.600][62-610.463, ]



12. The following monitoring wells shall be sampled in accordance with the monitoring frequencies specified in Permit Condition III.13. for Reuse System R-001. Quarterly sampling must be reasonably spaced to be representative of potentially changing conditions.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Depth (Feet)	Aquifer Monitored	New or Existing
MWB-01	MW-1	42	Surficial	existing
MWB-02	MW-1R		Surficial	new
MWC-01	MW-2	17.5	Surficial	existing
MWB-03	MW-5	18.5	Surficial	existing
MWC-04	MW-7	15	Surficial	existing
MWC-03	MW-13		Surficial	existing
MWI-01	MW-14		Surficial	existing

MWB = Background; MWI = Intermediate; MWC = Compliance

[62-522.600][62-610.463]

13. The following parameters shall be analyzed for each of the monitoring well(s) identified in Permit Condition(s) III. 12:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	FEET	In-situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	MG/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	MG/L	Grab	Quarterly
Arsenic, Total Recoverable	10	UG/L	Grab	Quarterly
Chloride (as Cl)	250	MG/L	Grab	Quarterly
Cadmium, Total Recoverable	5	UG/L	Grab	Quarterly
Chromium, Total Recoverable	100	UG/L	Grab	Quarterly
Lead, Total Recoverable	15	UG/L	Grab	Quarterly
Coliform, Fecal	Report	#/100ML	Grab	Quarterly
pH*	6.5 to 8.5	SU	In-situ	Quarterly
Sulfate, Total	250	MG/L	Grab	Quarterly
Turbidity*	Report	NTU	In-situ	Quarterly
Sodium, Total Recoverable	160	MG/L	Grab	Quarterly
Specific Conductance*	Report	UMHO/CM	In-situ	Quarterly
Temperature (C), Water*	Report	DEG.C	In-situ	Quarterly
Oxygen, Dissolved (DO)*	Report	MG/L	In-situ	Quarterly

\* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling and recorded, (see Figure FS 2200-2 Groundwater Purging Procedure and Form FD 9000-24, Groundwater Sampling Log). The field parameters to be reported on Part D of GW DMR shall be the last sample recorded.

[62-522.600(11)(b)] [62-601.300(3), 62-601.700, and Figure 3 of 62-601][62-601.300(6)] [62-520.300(9)]

14. If the concentration for any constituent listed in Permit Condition III. 5. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard. [62-520.420(2)]
15. In accordance with Part D of Form 62-620.910(10), water levels shall be recorded before evacuating wells for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NGVD allowable) at a precision of plus or minus 0.1 foot. [62-610.463(3)(a). ]
16. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-601.700(5)]

17. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Southwest District Office as being more representative of ground water conditions. [62-520.300(9)]
18. Ground water monitoring parameters shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(18)]
19. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10). For reuse or land application projects, results shall be submitted with the DMR for each month listed in the following schedule. The submitted results shall be for each year during the period of operation allowed by this permit in accordance with Permit Condition I.C.12. [62-522.600(10) and (11)(b)] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18)]

SAMPLE PERIOD	REPORT DUE DATE
January - March	April 28
April - June	July 28
July - September	October 28
October - December	January 28

20. If any monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department's Southwest District Office immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the Department's Southwest District Office. [62-522.600][62-4.070(3)]
21. All piezometers and monitoring wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless there is intent for their future use. [62-532.500(4)]

#### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

##### Part III Public Access System(s) (R-001)

1. Use of reclaimed water is authorized within the general service area identified in the attached map. The following uses of reclaimed water are authorized within this general service area: Athletic Complexes and Parks, Business, Commercial and Industrial Parks, Farms and Other Agricultural Activities, Golf Courses, Industrial and Manufacturing Facilities, Residential Developments, Retail Nurseries, Ferneries, and Sod Farms, Wholesale Nurseries, Ferneries, and Sod Farms". [62-620.630(10)(d)]
2. This reuse system includes the following major users (i.e., using 0.1 MGD or more of reclaimed water):

User Name	User Type	Capacity (MGD)	Acreage
River Run Golf Links	Golf Courses	0.2	100
Tropicana Products, Inc. irrigation	Industrial and Manufacturing Facilities	0.75	55
Totals			

[62-610.800(5)][62-620.630(10)(b)]

3. New major users of reclaimed water (i.e., using 0.1 MGD or more) may be added to the reuse system using the general permit described in Rule 62-610.890, F.A.C., if the requirements in this rule are complied with. Application for use of this general permit shall be made using Form 62-610.300(4)(a)1. [62-610.890]
4. Cross-connections to the potable water system are prohibited. [62-610.469(7)]
5. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use. [62-610.469(7)]
6. The permittee shall conduct inspections within the reclaimed water service area to verify proper connections, to minimize illegal cross-connections, and to verify the proper use of reclaimed water. Inspections are required when a customer first



connects to the reuse distribution system. Subsequent inspections are required as specified in the cross-connection control and inspection program. [62-610.469(7)(h)]

7. If a cross-connection between the potable and reclaimed water systems is discovered, the permittee shall:
  - a. Immediately discontinue potable water and/or reclaimed water service to the affected area.
  - b. If the potable water system is contaminated, clear the potable water lines.
  - c. Eliminate the cross-connection.
  - d. Test the affected area for other possible cross-connections.
  - e. Within 24 hours, notify the Southwest District Office's domestic wastewater and drinking water programs, and the Manatee County Health Department's drinking water program.
  - f. Within 5 days of discovery of a cross-connection, submit a written report to the Department detailing: a description of the cross-connection, how the cross-connection was discovered, the exact date and time of discovery, approximate time that the cross-connection existed, the location, the cause, steps taken to eliminate the cross-connection, whether reclaimed water was consumed, and reports of possible illness, whether the drinking water system was contaminated and the steps taken to clear the drinking water system, when the cross-connection was eliminated, plan of action for testing for other possible cross-connections in the area, and an evaluation of the cross-connection control and inspection program to ensure that future cross-connections do not occur. [62-555.350(3) and 62-555.360][62-620.610(20)]
8. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. [62-610.469(7)]
9. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. [62-610.471(3)]
10. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. [62-610.471(1), (2), (5), and (7)]
11. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. [62-610.469(4)]
12. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. [62-610.471(6)]
13. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. [62-610.471(8)]
14. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. [62-610.468(2)]
15. All new advisory signs and labels on vaults, service boxes, or compartments that house hose bibbs along with all labels on hose bibbs, valves, and outlets shall bear the words "do not drink" and "no beber" along with the equivalent standard international symbol. In addition to the words "do not drink" and "no beber," advisory signs posted at storage ponds and decorative water features shall also bear the words "do not swim" and "no nadar" along with the equivalent standard international symbols. Existing advisory signs and labels shall be retrofitted, modified, or replaced in order to comply with the revised wording requirements. For existing advisory signs and labels this retrofit, modification, or replacement

shall occur within 365 days after the date of this permit. For labels on existing vaults, service boxes, or compartments housing hose bibbs this retrofit, modification, or replacement shall occur within 730 days after the date of this permit. [62-610.468 & 62-610.469]

16. The permittee shall ensure that users of reclaimed water are informed about the origin, nature, and characteristics of reclaimed water; the manner in which reclaimed water can be safely used; and limitations on the use of reclaimed water. Notification is required at the time of initial connection to the reclaimed water distribution system and annually after the reuse system is placed into operation. A description of on-going public notification activities shall be included in the Annual Reuse Report. [62-610.468(6)]
17. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.414 & 62-610.464]
18. Overflows from emergency discharge facilities on storage ponds shall be reported as an abnormal event to the Department's Southwest District Office within 24 hours of an occurrence. The provisions of Rule 62-610.800(9), F.A.C., shall be met. [62-610.800(9)]

## V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class A facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 24 hours/day for 7 days/week. The lead operator must be a Class A.

[62-620.630(3)] [62-699.310] [62-610.462]

2. The lead operator shall be employed at the plant full time. "Full time" shall mean at least 4 days per week, working a minimum of 35 hours per week, including leave time. A certified operator shall be on-site and in charge of each required shift and for periods of required staffing time when the lead operator is not on-site. An operator meeting the lead operator classification level of the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(10), (5) and (1)]
3. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
4. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]
5. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility:
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;



FACILITY: City of Bradenton Wastewater Treatment Facility  
PERMITTEE: City of Bradenton, Department of Public Works

PERMIT NUMBER: FL0021369

- f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
- g. A copy of the facility record drawings;
- h. Copies of the licenses of the current certified operators; and
- i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

[62-620.350]

## VI. SCHEDULES

Section VI is not applicable to this facility.

## VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. [62-625.500]

## VIII. OTHER SPECIFIC CONDITIONS

- 1. The permittee shall apply for renewal of this permit at least 180 days before the expiration date of the permit using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. The existing permit shall not expire until the Department has taken final action on the application renewal in accordance with the provisions of 62-620.335(3) and (4), F.A.C. [62-620.335(1)-(4)]
- 2. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. [62-620.320(9) and 62-302.500(2)(e)][62-610.850(1)(a) and (2)(a)][62-640.700(2)(b)]
- 3. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. [62-600.410(8) and 62-640.400(6)]
- 4. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. [62-604.130(3)]
- 5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550] [62-620.610(20)]
- 6. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or

- b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
- c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
- d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
- e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health or safety problems.

[62-604.130(5)]

- 7. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. [62-600.400(2)(b)]
- 8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. [62-701.300(1)(a)]
- 9. The Permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The Permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery. [62-4.070(3)]
- 10. The permittee shall provide adequate notice to the Department of the following:
  - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C. if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

[62-620.625(2)]

## IX. GENERAL CONDITIONS

- 1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1)]
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]
- 3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold



interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]

5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.[62-620.610(9)]
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10)]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11)]
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for

compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12)]

13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13)]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14)]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15)]
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300 and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2) for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16)]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.[62-620.610(17)]
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
  - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
  - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
  - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220 and 62-160.330, F.A.C.



[62-620.610(18)]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
  - a. The following shall be included as information which must be reported within 24 hours under this condition:
    1. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
    2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
    3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
    4. Any unauthorized discharge to surface or ground waters.
  - b. Oral reports as required by this subsection shall be provided as follows:
    1. For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph a.4 that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the **STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519**, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
      - a) Name, address, and telephone number of person reporting;
      - b) Name, address, and telephone number of permittee or responsible person for the discharge;
      - c) Date and time of the discharge and status of discharge (ongoing or ceased);
      - d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
      - e) Estimated amount of the discharge;
      - f) Location or address of the discharge;
      - g) Source and cause of the discharge;
      - h) Whether the discharge was contained on-site, and cleanup actions taken to date;
      - i) Description of area affected by the discharge, including name of water body affected, if any; and
      - j) Other persons or agencies contacted.
    2. Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances.
  - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 17., 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX. 20 of this permit. [62-620.610(21)]
22. Bypass Provisions.
  - a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
    1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
    2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
    3. The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.
  - b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
  - c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1. through 3. of this permit.
  - d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit.

[62-620.610(22)]

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
  1. An upset occurred and that the permittee can identify the cause(s) of the upset;
  2. The permitted facility was at the time being properly operated;
  3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
  4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]



FACILITY: City of Bradenton Wastewater Treatment Facility  
PERMITTEE: City of Bradenton, Department of Public Works

PERMIT NUMBER: FL0021369

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

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Jeffry S. Greenwell, P.E.  
Water Facilities Administrator  
Southwest District Office





12/30/09 revision

**AMENDED FACT SHEET  
FOR  
STATE OF FLORIDA  
DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0021369

FACILITY NAME: City of Bradenton Water Reclamation Facility

FACILITY LOCATION: 1810 First Street West , Bradenton  
Manatee County

NAME OF PERMITTEE: City of Bradenton, Department of Public Works

PERMIT WRITER: Rudy Isaac/Jeff Hilton, P.E.

**Type I Renewal, NPDES Facility**

**I. SYNOPSIS OF APPLICATION**

**a. Chronology of Application**

Application Date: October 19, 2007  
Additional Information: November 19, 2007  
May 1, 2009

Public Notice Date:

**b. Type of Facility**

Domestic Wastewater Treatment Plant  
Publicly-owned treatment works  
Standard Industrial Classification Code: 4952

**c. Facility Capacity**

Existing Design Capacity:	7.5	MGD	AADF
Proposed Increase in Design Capacity:	0.0	MGD	AADF
Proposed Total Design Capacity:	7.5	MGD	AADF
Existing Permitted Capacity:	7.5	MGD	AADF
Proposed Increase in Permitted Capacity:	0.0	MGD	AADF
Proposed Total Permitted Capacity:	7.5	MGD	AADF

**d. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)**

See attached map(s) for the location(s) of effluent disposal and land application sites.

Outfall Serial Number D-001

Annual Average Daily Flow (mgd): 7.5

pH Range (Standard Units): 6.5 to 8.5

2. **BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING EFFLUENT MONITORING REQUIREMENTS)**

The following table provides the basis for Part I. A. provisions.

Outfall D-001 (Class III marine water):

<b>Parameter</b>	<b>Limit</b>	<b>Basis</b>	<b>Rationale</b>
Flow (MGD)	6.0	Annual Average	62-600.400(3)(b) FAC
Oxygen, Dissolved (DO) (MG/L)	5.0	Single Sample Min.	62-302.530(31) FAC
BOD, Carbonaceous 5 day, 20C (MG/L)	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample Max.	403.086(4)(a)1. FS & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
Solids, Total Suspended (MG/L)	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample Max.	403.086(4)(a)1. FS & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
Solids, Total Suspended (MG/L)	5.0	Single Sample Max.	62-600.440(5)(f)3. FAC
pH (SU)	6.5 to 8.5	Minimum and Maximum	62-302.530(52) FAC
Coliform, Fecal, % less than detection (PERCENT)	75	Minimum	62-600.440(5)(f)1. FAC
Coliform, Fecal (#/100ML)	25	Single Sample Max.	62-600.440(5)(f)2. FAC
Total Residual Chlorine (For Disinfection) (MG/L)	1.0	Minimum	62-600.440(5)(b) FAC
Total Residual Chlorine (For Dechlorination) (MG/L)	0.01	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Nitrogen, Total (as N) (MG/L)	3.0 3.75 4.5 6.0	Annual Average Monthly Average Weekly Average Single Sample Max.	403.086(4)(a)3. FS & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
Phosphorus, Total (as P) (MG/L)	1.0 1.25 1.5 2.0	Annual Average Monthly Average Weekly Average Single Sample Max.	403.086(4)(a)4. FS & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
Enterococci (#/100ML)	35 276	Monthly Geometric Mean Single Sample Max.	Title 40 CFR Section 131.41



Parameter	Limit	Basis	Rationale
Nickel, Total Recoverable (UG/L)	8.3	Single Sample Max.	62-302.530(45), F.A.C.
Copper, Total Recoverable (UG/L)	Report	Single Sample Max.	62-302.530(24), F.A.C.
Lead, Total Recoverable (UG/L)	8.5	Single Sample Max.	62-302.530(45), F.A.C.
Cyanide, Total (as CN) (UG/L)	1.0	Single Sample Max.	62-302.530(29), F.A.C.
Whole Effluent Toxicity Chronic (%)	100	Single Sample Min.	62-302.530(21) & (62) FAC

1. Enterococci, a single sample maximum of 276 was added based on "light use coastal recreation waters" as defined by 40 CFR Section 131.41.
2. Lead and Cyanide were added based on the expanded effluent data.
3. Changed the TMDL language, added 5% to the loads to reflect what was done for other facilities under the RA and added the paragraph explaining how the loads are to be reported.

In accordance with the load allocations for the Tampa Bay Reasonable Assurance, the Total Maximum Daily Load for Total Nitrogen shall be calculated from the monthly average Total Nitrogen concentration. The Total Nitrogen loading shall be calculated as a twelve-month rolling total and shall not exceed 23.1 tons/year and the five year average of the yearly totals shall not exceed 18.9 tons/year. Pursuant to Rule 62-620.325, F.A.C., the Department may revise this permit to incorporate the final findings.

The Annual Total value is the sum of the monthly totals January through December of each year during the permit cycle, beginning in January after permit issuance. The Annual Total value is not a rolling annual total. The Rolling Average value is the sum of the monthly totals divided by the number of months. The 5-Year Average value is the Rolling Average Value calculated in the 60<sup>th</sup> month after permit issuance. Prior to the 60<sup>th</sup> month, the 5-Year Average should be reported as NODI=9.

- a. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	04-21-09
62-160	12-03-08
62-302	04-02-08
62-520	07-12-09
62-522	07-12-09
62-550	09-18-07
62-600	04-13-06
62-601	12-24-96
62-602	10-15-07
62-610	11-19-07
62-620	02-17-09
62-625	01-08-97
62-640	03-30-98
62-650	12-26-96
62-699	10-15-07

- b. FS refers to various portions of the Florida Statutes  
c. CFR refers to various portions of the Code of Federal Regulations, Title 40  
d. BPJ refers to Best Professional Judgment

12. DEPARTMENT CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Rudy Isaac, Engineer IV  
Department Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926  
Telephone Number: 813-632-7600, Ext. 305  
Fax Number: 813-632-7662

THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 12.

14. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant and EPA:	August 28, 2009
Beginning of Proposed Public Comment Period:	October 4, 2009
End of Proposed Public Comment Period:	November 4, 2009
Notice of Agency Action:	



Fact Sheet  
City of Bradenton WRF - Manatee County  
PA File No. FL0021369-007-DW1P/NR

Proposed Issuance Date of Permit:

